

...MAY 2010 REGIONAL CLIMATE SUMMARY...

SUMMARY FOR THE SAN FRANCISCO BAY AREA AND MONTEREY BAY AREA...

...A COOL WET SPRING CONTINUES...

MUCH LIKE APRIL...MAY 2010 WAS COOLER AND WETTER THAN NORMAL. AN UPPER LEVEL TROUGH PERSISTED ALONG THE WEST COAST FOR MUCH OF THE MONTH...KEEPING TEMPERATURES COOL. THE TROUGH DEEPENED ON OCCASION AND THE RESULT WAS FOUR MODERATE RAIN EVENTS ACROSS THE REGION. THESE RAIN EVENTS PRODUCED ABOVE NORMAL PRECIPITATION FOR THE MONTH AT NEARLY ALL REPORTING LOCATIONS.

TEMPERATURES WERE ABOVE NORMAL DURING FIVE MAY DAYS NEAR THE BEGINNING AND END OF THE MONTH...FROM THE 2ND THROUGH THE 4TH AND AGAIN ON THE 29TH AND 30TH. IT WAS ON THESE DAYS THAT THE REGION WAS UNDER THE INFLUENCE OF A RIDGE OF HIGH PRESSURE. BUT ON ALL OTHER DAYS OF THE MONTH...TEMPERATURES WERE EITHER BELOW NORMAL OR NEAR NORMAL AS A PERSISTENT UPPER TROUGH DOMINATED WEST COAST WEATHER. BOTH HIGH AND LOW TEMPERATURES WERE BELOW NORMAL FOR THE MONTH. THE GREATEST NEGATIVE TEMPERATURE DEPARTURES OCCURRED IN THE NORTH BAY AND ALSO AT HIGHER ELEVATION REPORTING STATIONS. FOR EXAMPLE...THE AVERAGE HIGH TEMPERATURE FOR MAY IN THE MARIN COUNTY TOWN OF KENTFIELD WAS 67.8 DEGREES WHICH IS MORE THAN 8 DEGREES BELOW THE AVERAGE MAY HIGH TEMPERATURE FOR THAT LOCATION. MAY 2010 WAS THE 4TH COOLEST MAY ON RECORD IN KENTFIELD IN 108 YEARS OF RECORD KEEPING. AT THE LICK OBSERVATORY ON MOUNT HAMILTON...WHERE WEATHER RECORDS HAVE BEEN KEPT FOR THE PAST 61 YEARS...MAY'S AVERAGE HIGH TEMPERATURE OF 55.5 DEGREES WAS NEARLY 8 DEGREES BELOW NORMAL AND WAS THE 3RD COOLEST ON RECORD. ALTHOUGH THE MONTH AS A WHOLE WAS MUCH COOLER THAN NORMAL...ONLY A FEW DAILY LOW TEMPERATURES RECORDS WERE TIED OR BROKEN. RECORD LOWS OCCURRED ON THREE MORNINGS DURING THE SECOND HALF OF THE MONTH AT SOME LOCATIONS NEAR SAN FRANCISCO BAY.

NEARLY ALL OF MAY'S PRECIPITATION OCCURRED DURING FOUR DAYS...THE 10TH...17TH...25TH AND 27TH. THE HEAVIEST RAINFALL OCCURRED ON THE 27TH WHEN A FEW LOCATIONS IN THE NORTH BAY AND ALONG THE COAST PICKED UP NEARLY AN INCH OF RAIN. RAINFALL FOR THE MONTH WAS GENERALLY BETWEEN 150 AND 250 PERCENT OF NORMAL. SANTA ROSA'S RAIN TOTAL FOR THE MONTH...2.68 INCHES...REPRESENTED MORE THAN 300 PERCENT OF THEIR MONTHLY NORMAL. IN ADDITION...MAY 2010 WAS THE 12TH WETTEST MAY ON RECORD IN SANTA ROSA. WEATHER RECORDS HAVE BEEN KEPT IN SANTA ROSA FOR 107 YEARS. NOT ALL LOCATIONS RECEIVED ABOVE NORMAL RAINFALL IN MAY. THE FEW PLACES THAT DID NOT ARE LOCATED IN INTERIOR VALLEYS. BOTH LIVERMORE AND KING CITY ACCUMULATED LESS THAN HALF THEIR NORMAL MAY RAINFALL.

AFTER TWO CONSECUTIVE MONTHS OF ABOVE NORMAL RAINFALL...BY MAY 31ST SEASON-TO-DATE RAINFALL TOTALS WERE WELL ABOVE NORMAL ACROSS MUCH OF THE AREA...ANYWHERE FROM 110 TO 130 PERCENT OF NORMAL. EVEN SANTA ROSA...WHICH HAS BEEN LAGGING BEHIND NORMAL FOR MOST OF THE RAIN YEAR...MANAGED TO PICK UP SOME GROUND IN MAY...AND ENDED UP AT 99 PERCENT OF NORMAL AS OF MAY 31ST.

IF BOTH APRIL AND MAY ARE CONSIDERED...IT BECOMES APPARENT HOW COOL AND WET THE SPRING OF 2010 HAS BEEN. FOR INSTANCE...IN SAN JOSE THE AVERAGE HIGH TEMPERATURE FOR THE 61 DAYS FROM APRIL 1 TO MAY 31 WAS 67.7 DEGREES...WHICH RANKS AS THE 3RD COOLEST APRIL/MAY COMBINATION ON RECORD IN SAN JOSE AND THE COOLEST APRIL/MAY SINCE 1963. THE 3.38 INCHES OF RAIN THAT FELL IN SAN JOSE DURING THE MONTHS OF APRIL AND MAY REPRESENTS THE 13TH WETTEST APRIL/MAY AND IS THE WETTEST APRIL/MAY SINCE THE BIG EL NINO WINTER OF 1998.

...MAY REGIONAL TEMPERATURE SUMMARY...

LOCATION	AVG HIGH	NORMAL HIGH	DEPARTURE FROM NORMAL		AVG LOW	NORMAL LOW	DEPARTURE FROM NORMAL	

NORTH BAY...

CALISTOGA	72.4	79.5	-7.1		M	46.6		M
CLOVERDALE	74.3	79.0	-4.7		M	49.9		M
KENTFIELD	67.8	75.9	-8.7		47.9	48.0	-0.1	
NAPA	73.2	75.6	-2.4		46.4	48.7	-2.3	
PETALUMA	67.8	73.0	-5.2		44.8	47.1	-2.3	
SAINT HELENA	73.5	78.8	-5.3		46.9	48.2	-1.3	
SAN RAFAEL	66.7	72.7	-6.0		48.0	49.8	-1.8	
SANTA ROSA	70.3	73.9	-3.6		45.1	47.8	-2.7	
SONOMA		M	77.9	M		M	46.4	M

SAN FRANCISCO PENINSULA...

HALF MOON BAY		M	61.1	M		45.0	47.6	-2.6
REDWOOD CITY	68.1	74.9	-6.8		47.0	49.0	-2.0	
SAN FRANCISCO AIRPORT	64.7	67.3	-2.6		50.4	50.5	-0.1	
SAN FRANCISCO DOWNTOWN	62.3	64.9	-2.6		50.0	51.4	-1.4	

EAST BAY...

BERKELEY		M	66.7	M		46.9	51.0	-4.1
CONCORD	73.6	77.7	-4.1		49.9	53.5	-3.6	
FREMONT	68.8	72.2	-3.4		49.6	51.9	-2.3	
LIVERMORE	72.7	77.1	-4.4		46.2	48.5	-2.3	
MARTINEZ	73.6	78.9	-5.3		45.5	49.8	-4.3	
MOUNT DIABLO JUNCTION	64.1	70.8	-6.7		45.5	47.3	-1.8	
NEWARK	67.5	70.4	-2.9		51.1	52.9	-1.8	
OAKLAND	66.4	68.8	-2.4		50.9	53.4	-2.5	
RICHMOND		M	69.2	M		M	51.8	M

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	71.6	76.2	-4.6		42.7	45.3	-2.6	
GILROY	72.5	78.1	-5.6		47.6	48.8	-1.2	

LOS GATOS	70.6	75.9	-5.3	46.9	47.5	-0.6
MOUNT HAMILTON	55.5	63.4	-7.9	41.0	46.6	-5.6
SAN JOSE	70.0	75.1	-5.1	49.5	51.8	-2.3
SANTA CRUZ	68.8	70.6	-1.8	46.5	47.2	-0.7
WATSONVILLE	M	68.8	M	M	48.1	M

MONTEREY AND SAN BENITO COUNTIES...

BIG SUR STATION	M	71.3	M	M	46.2	M
CARMEL VALLEY	67.7	70.2	-2.5	43.1	44.8	-1.7
HOLLISTER	70.4	73.3	-2.9	45.6	47.4	-1.8
KING CITY	73.0	78.0	-5.0	45.5	45.9	-0.4
MONTEREY	60.0	64.9	-4.9	46.5	48.2	-1.7
PINNACLES NATIONAL						
MONUMENT	M	79.1	M	M	43.0	M
SALINAS	65.7	68.3	-2.6	45.7	49.3	-3.6

...MAY REGIONAL PRECIPITATION SUMMARY...

LOCATION	MAY TOTAL	AVERAGE MAY PRECIP	PERCENT OF NORMAL
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NORTH BAY...

CALISTOGA	2.52	1.09	231
CLOVERDALE	2.94	1.21	243
KENTFIELD	1.71	1.20	143
MUIR WOODS	2.11	1.11	190
NAPA	1.16	0.80	145
OCCIDENTAL	3.83	1.61	238
PETALUMA	1.49	0.62	240
SAINT HELENA	2.16	0.75	288
SAN RAFAEL	0.98	0.76	129
SANTA ROSA	2.68	0.88	305
SONOMA	2.23	0.84	265

SAN FRANCISCO PENINSULA...

HALF MOON BAY	2.06	1.27	261
REDWOOD CITY	0.66	0.43	153
SAN FRANCISCO			
AIRPORT	0.69	0.38	182
SAN FRANCISCO			
DOWNTOWN	0.95	0.55	173
WOODSIDE	0.97	0.67	145

EAST BAY...

BERKELEY	1.09	0.66	165
CONCORD	0.82	0.70	117
FREMONT	0.56	0.51	110
LIVERMORE	0.24	0.43	56

MARTINEZ	1.08	0.46	235
MOUNT DIABLO			
JUNCTION	1.23	0.85	145
NEWARK	0.46	0.42	110
OAKLAND	1.59	0.59	269
RICHMOND	M	0.54	M

SOUTH BAY AND SANTA CRUZ COUNTY...

BEN LOMOND	1.48	1.04	142
GILROY	0.49	0.40	123
LOS GATOS	M	0.46	M
MOUNT HAMILTON	1.36	0.95	143
SAN JOSE	0.35	0.44	80
SANTA CRUZ	0.74	0.70	106
WATSONVILLE	M	0.53	M

MONTEREY AND SAN BENITO COUNTIES...

BIG SUR STATION	1.71	0.89	192
CARMEL VALLEY	0.72	0.33	218
HOLLISTER	0.69	0.43	160
KING CITY	0.12	0.24	50
MONTEREY	0.54	0.50	108
PINNACLES NATIONAL			
MONUMENT	0.31	0.49	63
SALINAS	0.86	0.35	246

...DAILY TEMPERATURE RECORDS FOR MAY 2010...

DATE	LOCATION	RECORD	
		LOW TEMP	OLD RECORD
5/22	DOWNTOWN OAKLAND	47	47 IN 2002
5/23	SAN FRANCISCO	47	47 IN 1909
5/27	DOWNTOWN OAKLAND	47	50 IN 2009
5/27	OAKLAND AIRPORT	46	46 IN 2002

...MONTHLY RANKS FOR DOWNTOWN SAN FRANCISCO...

AVERAGE HIGH TEMPERATURE....62.3....36TH COOLEST OUT OF 135 YEARS
 AVERAGE LOW TEMPERATURE.....50.0....35TH COOLEST OUT OF 135 YEARS
 MONTHLY RAINFALL.....0.95 INCHES....35TH WETTEST OUT OF 160 YEARS

...MONTHLY RANKS FOR OTHER LOCATIONS...

AVG HIGH TEMP IN SAN JOSE...70.0...8TH COOLEST OUT OF 85 YEARS

AVG HIGH TEMP IN KENTFIELD...67.8...4TH COOLEST OUT OF 108 YEARS
AVG HIGH TEMP ON MT HAMILTON...55.5...3RD COOLEST OUT OF 61 YEARS
MAY RAINFALL IN SANTA ROSA...2.68 INCHES...12TH WETTEST OUT OF 107
YEARS

NOTE: THIS CLIMATOLOGICAL DATA IS PRELIMINARY. FOR OFFICIAL
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